## CLAIMS LISTING

- 1.(currently amended) A stimulable phosphor screen or panel suitable for use in mammographic applications comprising a binderless phosphor layer having needle-shaped crystals, said layer not exceeding a layer thickness of 150 µm, and a support wherein an intermediate layer arrangement of an X-ray absorbing foil or layer absorbing x-rays to a lower extent, and avoiding scattering to a great extent, and, farther from the support, a stimulated light reflecting foil is present between said support and said phosphor layer.
- 2. (previously presented) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises an X-ray absorbing layer comprising a binder wherein said binder is a matrix of a polycondensation product of a metal alkoxide species, and an oxide or a hydroxide of lead metal is dispersed in said binder.
- 3.(original) A stimulable phosphor screen or panel according to claim 2, wherein said binder containing the lead compound is a matrix of an inorganic network of alkoxymetal substituted organic polymers or copolymers matrix.

- 4. (original) A stimulable phosphor screen or panel according to claim 3, wherein said matrix is derived from a cross-linking agent selected from the group consisting of dialkoxysilanes, trialkoxysilanes, tetraalkoxysilanes, titanates, zirconates and aluminates; and a colloid of silica, and wherein said matrix comprises a colloid of an oxide or a hydroxide of lead metal.
- 5.(original) A stimulable phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement comprises, as an X-ray absorbing layer a layer of lead.
- 6.(original) A stimulable phosphor screen or panel according to claim 1, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 7.(original) A stimulable phosphor screen or panel according to claim 2, wherein as a stimulated light reflecting foil an aluminum layer is present.
- 8.(cancelled)
- 9. (cancelled)
- 10.(cancelled)
- 11. (original) A phosphor screen or panel according to claim 1, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.

- 12.(original) A phosphor screen or panel according to claim 6, wherein said support is selected from the group consisting of ceramics, glass, amorphous carbon, aluminum and polymeric films.
- 13. (original) A phosphor screen or panel according to claim 1, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 14.(original) A phosphor screen or panel according to claim 6, wherein said intermediate layer arrangement has a surface that has been subjected to embossing for forming a fine concavo-convex pattern.
- 15. (cancelled)
- 16. (cancelled)
- 17. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 18.(original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 19. (cancelled)
- 20.(cancelled)

- 21. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 22. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer a moisture-repellent parylene layer.
- 23. (cancelled)
- 24. (cancelled)
- 25. (original) A phosphor screen or panel according to claim 1, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 26. (original) A phosphor screen or panel according to claim 6, having between said intermediate layer arrangement and the phosphor layer and between said intermediate layer arrangement and the support a moisture-repellent parylene layer.
- 27.(cancelled)
- 28.(cancelled)
- 29. (cancelled)
- 30.(cancelled)
- 31. (cancelled)

- 32. (cancelled)
- 33.(cancelled)
- 34. (previously presented) A binderless stimulable phosphor screen or panel according to claim 1, wherein said needleshaped phosphor crystals are crystals of an alkali metal halide phosphor.
- 35. (previously presented) A binderless stimulable phosphor screen or panel according to claim 2, wherein said needleshaped phosphor crystals are crystals of an alkali metal halide phosphor.
- 36. (cancelled)
- 37. (previously presented) A binderless stimulable phosphor screen according to claim 34, wherein said alkali metal halide phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 38. (previously presented) A binderless stimulable phosphor screen according to claim 35, wherein said alkali metal halide phosphor is a CsX:Eu stimulable phosphor, wherein X represents a halide selected from the group consisting of Br, Cl and I.
- 39.(cancelled)
- 40. (cancelled)

- 41. (cancelled)
- 42. (cancelled)
- 43. (cancelled)
- 44. (cancelled)
- 45. (previously presented) A phosphor screen or panel according to claim 1, wherein said x-ray absorbing foil or layer has a thickness in the range of 25 to 150  $\mu m$ .
- 46. (previously presented) A phosphor screen or panel according to claim 2, wherein said said x-ray absorbing foil or layer has a thickness in the range of 25 to 150  $\mu m$ .
- 47. (previously presented) A phosphor screen or panel according to claim 5, wherein said said x-ray absorbing foil or layer has a thickness in the range of 25 to 150  $\mu m$ .
- 48.(previously presented) A phosphor screen or panel according to claim 6, wherein said aluminum layer has a thickness in the range of 0.5  $\mu$ m to 5  $\mu$ m.
- 49.(previously presented) A phosphor screen or panel according to claim 7, wherein said aluminum layer has a thickness in the range of 0.5  $\mu m$  to 5  $\mu m$  .
- 50.(previously presented) A phosphor screen or panel according to claim 1, wherein said support is a PET support having a thickness in the range from 100  $\mu$ m to 1000  $\mu$ m.

- 51.(previously presented) A phosphor screen or panel according to claim 2, wherein said support is a PET support having a thickness in the range from 100  $\mu m$  to 1000  $\mu m$  .
- 52.(previously presented) A phosphor screen or panel according to claim 5, wherein said support is a PET support having a thickness in the range from 100  $\mu$ m to 1000  $\mu$ m.
- 53.(previously presented) A phosphor screen or panel according to claim 6, wherein said support is a PET support having a thickness in the range from 100  $\mu$ m to 1000  $\mu$ m.
- 54.(previously presented) A phosphor screen or panel according to claim 7, wherein said support is a PET support having a thickness in the range from 100  $\mu$ m to 1000  $\mu$ m.
- 55.(previously presented) A phosphor screen or panel according to claim 1, wherein said support is an amorphous carbon support having a thickness in the range from 100  $\mu m$  to 3000  $\mu m$ .
- 56.(previously presented) A phosphor screen or panel according to claim 2, wherein said support is an amorphous carbon support having a thickness in the range from 100  $\mu m$  to 3000  $\mu m$ .
- 57. (previously presented) A phosphor screen or panel according to claim 5, wherein said support is an amorphous

- carbon support having a thickness in the range from 100  $\mu m$  to 3000  $\mu m\text{.}$
- 58.(previously presented) A phosphor screen or panel according to claim 6, wherein said support is an amorphous carbon support having a thickness in the range from 100  $\mu m$  to 3000  $\mu m$  .
- 59.(previously presented) A phosphor screen or panel according to claim 7, wherein said support is an amorphous carbon support having a thickness in the range from 100  $\mu m$  to 3000  $\mu m$  .